

SECTION IX:

INSTRUCTIONS FOR

COMPLETING A

COST ESTIMATE WORKSHEET

(CEW)

Cost Estimate Worksheet Main Screen

CEW Main

The Cost Estimate Worksheet is used to support the funding requested for a project in the Capital Budget.

Project Title: Disaster Recovery Center [Request]

CEW Title: Disaster Recovery Center

Prepared By: Fiona Burns

Recommended By:

AE on Board? ☐ Yes ☒ No

Override existing formulas and key in data manually? ☐ Yes ☒ No

Source of Estimate:

Project Location:

Institution:

Project #:

Estimate Date (MM/DD/YYYY):

Estimate Ref-Pt: January 16

Escalation is set at 4.00 for 2019, 4.00 for 2020, 4.00 for 2021, 4.00 for 2022, 4.00 for succeeding calendar years

[Continue](#) [Entire WorkSheet](#) [Cancel](#)

1. Click “CEW” on the dark-yellow tool bar. CBIS will display a “CEW List” screen.
2. Click “Add” to start a new CEW, and CBIS will display the screen shown above. To edit an existing CEW, click on the appropriate link under “CEW Title.” Then, click “Original Requested CEW” on the following screen.

Note: When entering numerical information in grids, DO NOT use commas or decimals unless otherwise stated.

Project Title	No data entry required. The field populates automatically with the project title listed in the “Main Information” section of CBIS.
CEW Title	If the project has more than one CEW, enter a distinctive name for the CEW you are working on (e.g. “Phase I”).
Prepared By:	No data entry required. The name of the individual logged in to CBIS populates automatically.
A/E on Board?	Choose “Yes” if an architect or engineer (A/E) has been hired for the project. Choose “No” if an architect or engineer has not been hired.
Override existing formulas and key in data manually?	Choose “Yes” if you have a cost estimate from your A/E that you will use to complete the CEW. If you do not have a cost estimate from an A/E, choose “No” to use the existing formulas.
Source of Estimate	Enter the name of the source of the cost estimate here. This can be an internal agency cost center, the DGS Cost Center, the project’s A/E, or a consultant.
Project Location	Enter the subdivision (county) in which the project is located.
Institution	No data entry required. If applicable, this field populates automatically.
Project #	Enter the project number if applicable. DGS assigns a project number after the General Assembly authorizes project funding.
Estimate Date	Enter the date you are entering the CEW information into CBIS in MM/DD/YYYY format.

Cost Estimate Worksheet Main Screen (Continued)

Estimate Reference Point	<p>Enter the Estimate Reference Point. This is the date on the source used to prepare the cost estimates and affects future escalation.</p> <p>The Estimate Reference Point assumes this source is the most recent Means Construction Cost Data, which is released each January. However, in practice DBM does not require agencies to use this data every year. To update a cost estimate, agencies can instead update the Estimate Reference Point to January of the current year, and then apply the prior year's escalation to the project's base costs (Items 8 -10; Structure, Site, and Utilities). This gives you an estimate of the most recent Means Construction Cost Data.</p> <p>Using the Estimate Reference Point to account for escalation varies depending on which of the following situations applies to your project:</p> <p>1) Project does not have a cost estimate from an A/E or CM: If the project does not have a cost estimate from an A/E or CM, update the Estimate Reference Point to January of the current year. Typically, agencies update the Estimate Reference Point and then increase the cost per square foot in Items 8-10 by applying the prior calendar year's escalation factor (4.0% for CY 2020).</p> <p>2) Project has a cost estimate from A/E, and you selected "do not override existing formulas": The Estimate Reference Point will apply escalation to the project. A/E estimates entered into the CEW must be base costs that do not factor in the A/E's escalation estimate.</p> <p>3) Project has a cost estimate from the A/E, and you selected "override existing formulas": Because you chose to override existing formulas, the Estimate Reference Point will not affect escalation. The A/E estimates should already factor in the construction schedule and therefore escalation.</p> <p>4) Project was bid and has an estimate from the CM: Do not update the Estimate Reference Point. You should have selected to "override existing formulas", so escalation will not apply. The CM estimate already factors in the construction schedule.</p>
---------------------------------	--

Cost Estimate Worksheet

Items 1 - 6

Title: Disaster Recovery Center
CEW Title: Disaster Recovery Center
CEW - Items 1 - 6

1. Design Phase:

2. Project Type: ☐ Demolition ☐ Major ☐ Minor ☒ New Construction ☐ Renovation ☐ Site ☐ Utility

3. Design Period (MM/DD/YYYY): Duration of Months Starting on until

4. Estimated Bid Date (MM/DD/YYYY):

5. Construction Period (MM/DD/YYYY): Duration of Months Starting on until

Project Description:
 Construct a 50,000 GSF new facility in Anne Arundel County on the current grounds of the closed Crownsville State Hospital for use by all State agencies for the recovery of critical services and systems in the event primary data centers become inaccessible; conducting IT disaster recovery plan testing; and hosting statewide critical applications. Such a facility is imperative to the continued delivery of critical services to the constituents of the State, and for the business of the State to continue should a natural or man made event render an agency's primary data center inoperable. This facility is to support the IT disaster recovery plans of State agencies and is not intended to accommodate the operational requirements of an agency's Continuity of Operations Plan (COOP).

6. Estimated MidPoint:
 (Auto-populated based on Item 5)

Based on the established project schedule, estimate the mid-point of the construction period. Allow time from project bid date to construction start date to account for award of the project and time before the contractor receives notice to proceed with construction. Enter the number of months from the estimate reference point to the mid-point of construction.

[Continue](#) [Entire Worksheet](#) [Back](#) [Cancel](#)

Item 1 Design Phase	<p>Select the design phase of the project that the CEW data is based on from the drop-down menu. This will not necessarily be the stage of design that you are currently in.</p> <p>Select “Budget” if this is an initial request or if an A/E has not yet provided a cost estimate. Select “Schematic,” “Design Development,” or the appropriate phase of “Construction Documents” to reflect the stage of design from which the data is derived.</p>
Item 2 Project Type	Check the appropriate box or boxes to indicate the type of project.
Item 3 Design Period	Enter the number of months it will take to design the project and the starting date in MM/DD/YYYY format.
Item 4 Estimated Bid Date	Enter the estimated bid date in MM/DD/YYYY format.
Item 5 Construction Period	Enter the number of months it will take to construct the project and the construction start date in MM/DD/YYYY format.
Project Description	No data entry required. The field populates automatically with the project description entered in the “Main” screen.
Item 6 Estimated MidPoint	<p>No data entry required. CBIS calculates the Estimated MidPoint date automatically based on the established project schedule. The MidPoint date is halfway between the beginning and end of construction and is used by CBIS, along with the Estimate Reference Point, to calculate escalation.</p> <p>To ensure this field populates correctly for an existing project, delete the existing mid-point after you update the construction period. Do not enter a date manually unless the project has an atypical construction schedule.</p> <p>Click “Continue.” CBIS will display “CEW - Item 7.”</p> <p>To verify that the MidPoint auto-populated, click “back” to return to the Items 1-6 screen. To verify that the escalation makes sense, continue to the Item 8 screen and review Item 8I - Escalation to Mid-Pt. Once you have confirmed this information is correct, click “back” to return to the CEW – Item 7” screen.</p>

Cost Estimate Worksheet

Item 7: Area Screen

CBIS. [Home](#) [Main](#) [CEW](#) [Schedule](#) [Cost & Funds](#) [Justification](#) [Details](#) [Tax Survey](#) [Operating Imp.](#) [Submit](#) [About CBIS](#) [Manage Account](#) [Logout](#)

Title: Disaster Recovery Center
CEW Title: Disaster Recovery Center

CEW - Item 7: Area

List the gross and net square footage for each area of the building under the appropriate column.

New Area Worksheet [Edit Grid](#)

Area	GSF	NSF	Eff. Factor	% Efficiency
A1	72,530	44,567	1.63	61.4%
Totals	72,530	44,567		

Renovated Area Worksheet [Edit Grid](#)

Area	GSF	NSF	Eff. Factor	% Efficiency
Totals	0	0		

[Continue](#) [Entire WorkSheet](#) [Back](#)

Click the **Edit Grid** button above the *New Area Worksheet* table.

Item 7 New Area Worksheet

Enter the gross square feet for the major types of space that the building will contain (ex. office suites, kitchen, instructional areas, research labs, etc.).

1. Click "Edit Grid" to enter information or make changes.
2. For each space, enter the type of space under *Area*. Next, enter the gross square feet (GSF) and net square feet (NSF) next to the type of space. CBIS will calculate the efficiency factor automatically.
3. After entering information for each area, click "Save" and confirm that the "Totals" calculated by CBIS are correct.

Notes:

This section applies to projects for which there is a defined square footage. It does not apply to projects, such as infrastructure improvements, that do not have a defined square footage.

Efficiency factors should be consistent with instructions in the DGS Procedures Manual. For out-year estimating, use the minimum efficiency factor in the range provided by DGS.

Item 7 Renovated Area Worksheet

To enter data for *Renovated Areas*, follow the same data input process as described above for *New Area Worksheet*. Click "Save" and review the information you entered. Then, click "Continue." CBIS will display "CEW - Item 8 - Structure."

Cost Estimate Worksheet

Item 8: Structure Screen

C.B.I.S.

Home Main **CEW** Schedule Cost & Funds Justification Details Tax Survey Operating Imp. **Submit**

Title: Disaster Recovery Center
CEW Title: Disaster Recovery Center
CEW - Item 8: Structure
List the project costs in the appropriate spaces.

Structure - New Edit Grid

	Area	GSF	\$/SF	Amount
A1		72530.00	260.00	18,857,800.00
Totals				18,857,800.00

Structure - Renovated Edit Grid

	Area	GSF	\$/SF	Amount
Totals				0

C. Asbestos Removal

D. Built-in Equipment

E. Interior Demolition

F. Information Technology

G. Subtotal:

H. Subtotal w/ Regional Constr. Factor:

I. Escalation to Mid-Pt:

J. Structure Total (Item H + Item I):

Continue Entire WorkSheet Back Cancel

To escalate the cost of projects for which a CEW was created last year, apply the escalation factor for the previous calendar year (4.0% for CY 2020) to Items 8A – 8F as explained in the Estimate Reference Point section.

Item 8 A Structure - New	<p>Click “Edit Grid” above the “Structure - New” table to enter the cost per square foot. CBIS carries over the Area and GSF in this table from “Item 7 – New Area Worksheet.” If you do not know the appropriate cost per square foot, call the DGS Cost Center at 410-767-4397. Click “Save.”</p> <p>Note: You may use decimals; however, the printed report will show these costs rounded to the nearest dollar.</p>
Item 8 B Structure - Renovated	<p>Follow the same data input process as described above for “Structure - New,” to enter the cost per square foot for renovated areas. CBIS will automatically carry over the Area and GSF in this section from “Item 7 – Renovated Area Worksheet.” Click “Save.”</p> <p>Note: You may use decimals; however, the printed report will show these costs rounded to the nearest dollar.</p>

Cost Estimate Worksheet

Item 8: Structure Screen (Continued)

Item 8 C, D, E, and F	These items provide fields for additional entries that are not included in the cost per square foot you entered in the “Structure - New” and/or “Structure - Renovated” fields. The items generally include information technology (list internet connection costs in Item 10), built-in equipment, asbestos abatement, and demolition that are part of general construction. Itemize and list these and similar items directly into fields 8C, 8D, 8E, and 8F. Click “Continue” to save the data and navigate to the next page.
Item 8 G – Subtotal	No data entry required. CBIS calculates this field automatically based on the data entered in Items 8A - F.
Item 8 H—Subtotal w/ Regional Construction Factor	<p>If you do not have a cost estimate from an A/E, enter the regional construction factor for the jurisdiction in which the project is located. This factor accounts for variations in the wage rates established by the Department of Labor, Licensing and Regulation as applicable to the 24 subdivisions in Maryland.</p> <p>A/E estimates should be based on market conditions and industry forecasts. Enter a regional construction factor of 1.0 if you have an estimate from an A/E, regardless of the project’s location. The regional construction factors are included in the Cost Estimate Worksheet (CEW) section of the Capital Budget Guide that is circulated to agencies by the Office of Capital Budgeting in the spring of each year.</p>
Item 8 I—Escalation to Mid-Pt	<p>No data entry required.</p> <p>If you responded “No” to the question “Override existing formulas and key in data manually?” in the “Main” screen, CBIS calculates these fields based on the Estimate Reference Point and construction schedule information entered on previous screens.</p> <p>If you responded “Yes” to the question “Override existing formulas and key in data manually?” in the “Main” screen, CBIS will automatically zero this field out.</p>
Item 8 J—Structure Total (Item H + Item I)	No data entry required. CBIS calculates this field automatically.

Cost Estimate Worksheet

Item 9: Site Screen

C.B.I.S. [About CBIS](#) [Manage Account](#) [Logout](#)

[Home](#) [Main](#) [CEW](#) [Schedule](#) [Cost & Funds](#) [Justification](#) [Details](#) [Tax Survey](#) [Operating Imp.](#) [Submit](#)

Title: Disaster Recovery Center
CEW Title: Disaster Recovery Center

CEW - Item 9: Site

To determine site costs, use the worksheet below to list site items that are relevant to the project and list the estimated costs for those items.

A. Enter % of Item 8G or \$ amount 5.00000000 % of 21,857,800 is 1,092,890 [Edit Amount](#)

B. Site Items Worksheet [Edit Worksheet](#)

Site Items	Estimate Costs
Totals	0
C. Subtotal (line A + line B)	1,092,890
D. Subtotal w/ Regional Construction Factor: (as set in item 8H)	1.00 x line C 1,092,890
E. Escalation to Mid-Pt: (with escalation to mid-point as set in item 8I)	(15.33% of line D) 167,540
F. Site Total:	line D + line E 1,260,430

[Continue](#) [Entire WorkSheet](#) [Back](#)

<p>Item 9 A % of Item 8G</p>	<p>If you responded “No” to the question “Override existing formulas and key in data manually?” in the “Main” screen, use the default of 5% to calculate the cost of general site conditions. This percentage is multiplied by Item 8G, the Subtotal of the “Structure” costs.</p> <ul style="list-style-type: none"> If the default percentage is inadequate, click “Edit Amount,” insert the appropriate percentage, and click “Save.” You must explain how you determined the modified percentage in the “CEW - Notes” screen which follows “CEW - Total” (Items 22-27). If you update costs in Item 8, Item 9A will adjust accordingly. <p>If you responded “Yes” to the question “Override existing formulas and key in data manually?” in the “Main” screen, CBIS will automatically zero this field out. Enter the A/E’s estimate as a value and click “Save.”</p> <ul style="list-style-type: none"> It is not possible to enter a percentage. If you only have a percentage, use it to calculate a value, and enter that value in Item 9A. If you change any costs in item 8, Item 9A will NOT be affected. You must make changes to Item 9A manually.
<p>Item 9 B Site Items Worksheet</p>	<p>This grid enables you to break out individual site items (ex. site preparation, landscaping, building demolition, etc.) and costs identified by your A/E instead of combining all site items under Item 9A. You may have atypical site items that are in addition to the 5% general site conditions estimate (Item 9A). In this case, you may enter information into both Items 9A and 9B.</p> <p>To enter individual site items, click “Edit Worksheet” above the “Site Items Worksheet” table. Enter any discrete site work items and their Estimate Costs. To add multiple site items, click “Add New” to make a new entry. Click “Delete” to delete the most recent entry. When you complete all entries, click “Save.”</p>
<p>Item 9 C–F Subtotals and Total</p>	<p>No data entry required. CBIS calculates these fields automatically. Click “Continue.” CBIS will display “CEW - Item 10: Utilities.”</p>

Cost Estimate Worksheet

Item 10: Utilities Screen

CBIS About CBIS Manage Account Logout

Home Main **CEW** Schedule Cost & Funds Justification Details Tax Survey Operating Imp. **Submit**

Title: Disaster Recovery Center
CEW Title: Disaster Recovery Center

CEW - Item 10: Utilities

To determine Utility costs, use the work sheet below to list site work items that are relevant to the project and list the estimated costs of those items

A. Enter % of 8G or \$ amount: 5.00000000 % of 21,857,800 is 1,092,890 Edit Amount

B. Utilities Items Worksheet Edit Worksheet

Utility Items	Estimate Costs
Total:	0
C. Subtotal: (line A + line B)	1,092,890
D. Subtotal w/Regional Construction Factor: (as set in Item 8H)	1.00 x line C 1,092,890
E. Escalation to Mid-Pt: (with escalation to mid-point as set in item 8I)	(15.33% of line D) 167,540
F. Site Total:	line D + line E 1,260,430

Continue Entire WorkSheet Back

Note: Do not include commas or decimals.

Item 10A % of Item 8G

If you responded “No” to the question “Override existing formulas and key in data manually?” in the “Main” screen, use the default of 5% to calculate the cost for utilities. This percentage is multiplied by Item 8G, the Subtotal of the “Structure” costs.

If the default percentage is inadequate, click “Edit Amount,” insert the appropriate percentage, and click “Save.” You must explain how you determined the modified percentage in the “CEW - Notes” screen which follows “CEW - Total” ([Items 22-27](#)).

Note: If any costs in Item 8 are changed, Item 10A will adjust accordingly.

If you responded “Yes” to the question “Override existing formulas and key in data manually?” in the “Main” screen, CBIS will automatically zero this field out. Enter the A/E’s estimate as a value and click “Save.”

It is not possible to enter a percentage. If you only have a percentage, use it to calculate a value and enter that value in Item 10A. Note: If any costs in item 8 are changed later, Item 10A will NOT be affected, so you must adjust it manually if you want to change it.

Item 10B Utilities Items Worksheet

This grid enables you to break out individual utility costs identified by you A/E, instead of combining them into Item 10A. You may have atypical utility items that are in addition to the 5% general utilities estimate (Item 10A). In this case, you may enter information into both Items 10A and 10B.

Click “Edit Worksheet” above the “Utility Items” grid. Enter any discrete site work items and their Estimate Cost identified by your A/E. To add multiple site items, click “Add New” to make a new entry. Click “Delete” to delete the most recent entry. When you complete all entries, click “Save.”


*Internet connection costs: To calculate the cost to connect to the State-owned fiber optic backbone, contact the Department of Information Technology (DoIT) to trace the required fiber optic line from the nearest connection point to the address of the requested project site along existing roadways. Allocate the connection costs in the final year of construction since it takes DoIT approximately six months to connect a site. Refer to DBM’s annual capital budget instructions to appropriately account for connectivity costs associated with your projects.

Cost Estimate Worksheet
Item 10: Utilities Screen (Continued)

Items 10 C, D, and E Subtotals and Total	No data entry required. CBIS calculates these fields automatically. Click "Continue." CBIS will display "CEW - Item 11."
---	---

Cost Estimate Worksheet

Item 11 Screen



[About CBIS](#)
[Manage Account](#)
[Manage Security Questions](#)
[Logout](#)

[Home](#)
[Main](#)
[CEW](#)
[Schedule](#)
[Cost & Funds](#)
[Justification](#)
[Details](#)
[Tax Survey](#)
[Operating Imp.](#)
[Submit](#)

Title: Disaster Recovery Center

CEW Title: Disaster Recovery Center

CEW - Item 11

The total Structure, Site, and Utilities Costs that you estimated constitutes the estimated construction cost as of the mid-point of the construction date.

Structure Estimated Cost (Item 8 Total)	26,367,064
Site Estimated Cost (Item 9 Total)	1,318,353
Utilities Estimated Cost (Item 10 Total)	1,318,353
Subtotal	29,003,770

[Continue](#)
[Entire WorkSheet](#)
[Back](#)


Item 11
Subtotal

No data entry required. This screen summarizes and provides a cost subtotal for the estimated costs for “Structure,” “Site,” and “Utilities.” If any of costs appear incorrect, return to the prior screens and make appropriate corrections.

Click “Continue.” CBIS will display Items 12 - 15, which concern Construction.

Cost Estimate Worksheet

Construction Screen



[Home](#)
[Main](#)
[CEW](#)
[Schedule](#)
[Cost & Funds](#)
[Justification](#)
[Details](#)
[Tax Survey](#)
[Operating Imp.](#)
[Submit](#)

[About CBIS](#)
[Manage Account](#)
[Logout](#)

Title: Disaster Recovery Center

CEW Title: Disaster Recovery Center

CEW - Construction

Item 12

a. Total Construction Contingency:	<input type="text" value="5.00000000"/>	% of Item 11	<input type="text" value="1386473"/>	Edit
b. Green Building Premium:	<input type="text" value="2.00000000"/>	% of Item 11	<input type="text" value="554589"/>	Edit
c. CM Cost Construction Share:	<input type="text" value="0"/>	% of (Item 11+ Item 12a)	<input type="text" value="0"/>	Edit
d. Public Art Premium:	<input type="text" value="0.50000000"/>	% of Item 11	<input type="text" value="138647"/>	Edit

Item 13

Inspection and Testing:	<input type="text" value="2.20000000"/>	% of (Item 11)	<input type="text" value="610048"/>	Edit
-------------------------	---	-----------------	-------------------------------------	----------------------

Item 14

CPM Schedule:	<input type="text" value="0"/>
---------------	--------------------------------

Item 15 [Edit](#)

Miscellaneous Construction Cost	Amount
Total:	0

[Continue](#)
[Entire WorkSheet](#)
[Back](#)
[Cancel](#)

For items 12a, 12b, 12c, and 13:

If you responded “No” to the question “Override existing formulas and key in data manually?” in the “Main” screen, enter percentage data directly in the fields provided. If you know the specific dollar amount for any of these items, click “Edit” and enter the amount. Click “Save.”

If you responded “Yes” to the question “Override existing formulas and key in data manually?” in the “Main” screen, you cannot enter a percentage. Enter the value by clicking “Edit” and entering the amount. Click “Save.”

Item 12a Construction Contingency	This funding is a construction contingency for change orders during construction. The contingency amount starts out as 10% of Item 11. When construction funding becomes a budget-year request, reduce the contingency to 5%.
Item 12b Green Building Premiums	Include this premium only if the project is at least 7,500 GSF. These funds are for additional costs related to construction of a building associated with green construction practice, which conforms with LEED Silver or International Green Construction Code rating principles outlined by the Maryland Green Building Council. If your project does not meet the GSF threshold, or if you obtained a waiver, delete this percentage. If your base cost estimate already factors in green building costs, delete this item. Otherwise, use the default 2%.

Cost Estimate Worksheet

Construction Screen (Continued)

Item 12c CM Cost Construction Share	<p>This item applies only to Higher Education agencies and projects for which DGS approved the use of a construction manager. Other agencies should leave this item blank.</p> <p>Enter 3% of Item 11 + 12A. If you modify this percentage, explain how the modified percentage was determined in the “CEW - Notes” screen which follows “CEW - Total” (Items 22-27).</p>								
Item 12d Public Art Premium	<p>If the project is at least 50% State-funded and (1) a new construction of at least 15,000 GSF OR a major renovation of at least 15,000 GSF and replacement of major utilities such as HVAC, electrical, or plumbing; and (2) <u>not</u> funded in the annual State capital budget as a miscellaneous grant or legislative initiative, then you can include a Public Art Premium of 0.5% of Item 11. This must be used for public art and will be removed from the budget later if not used for public art.</p>								
Item 13 Inspection and Testing	<p>Enter a percentage or an amount for construction inspection and testing based upon the estimated construction cost. Unless you are advised otherwise, use the rates shown below and apply them against the sum of Item 11 and Item 12a.</p> <table data-bbox="613 974 1299 1113"> <thead> <tr> <th><u>Expected Construction Cost</u></th><th><u>Rate</u></th></tr> </thead> <tbody> <tr> <td>0 - 4,000,000</td><td>4.6% (0.046)</td></tr> <tr> <td>4,000,000 - 9,000,000</td><td>3.2% (0.032)</td></tr> <tr> <td>9,000,000 and greater</td><td>2.2% (0.022)</td></tr> </tbody> </table>	<u>Expected Construction Cost</u>	<u>Rate</u>	0 - 4,000,000	4.6% (0.046)	4,000,000 - 9,000,000	3.2% (0.032)	9,000,000 and greater	2.2% (0.022)
<u>Expected Construction Cost</u>	<u>Rate</u>								
0 - 4,000,000	4.6% (0.046)								
4,000,000 - 9,000,000	3.2% (0.032)								
9,000,000 and greater	2.2% (0.022)								
Item 14 CPM Schedule	<p>Enter a cost for critical path scheduling. Use \$10,000 plus .001 of Item 11 or estimate an allowance. Higher Education agencies should leave this item blank.</p>								
Item 15 Miscellaneous Construction Costs	<p>Click “Edit” to add any miscellaneous construction-related costs not included in the area, site, or utility estimates (include a reference). Click “Add” to include additional items and their respective amounts. Click “Save” to save your entries.</p> <p>Click “Continue.” CBIS will display Items 16, 17, 18a, 18b, and 18c.</p>								

Cost Estimate Worksheet

Design Screen

C.B.I.S.				About CBIS	Manage Account	Logout			
Home	Main	CEW	Schedule	Cost & Funds	Justification	Details	Tax Survey	Operating Imp.	Submit
Title: Disaster Recovery Center									
CEW Title: Disaster Recovery Center									
CEW - Design									
Item 16									
A.E Basic Services Fees:	0.04326481	% of (Item 11 + Item 12a)	12597	Edit					
Item 17									
A.E Special Services Fee:	0.01138548	% of (Item 11 + Item 12a)	3315	Edit					
Item 18									
a. Bldg Equip. Commissioning:	0	% of (Item 8j)	0	Edit					
b. CM Pre-construction Fees:	0	% of (Item 11)	0	Edit					
Item 18c									
Edit									
Miscellaneous Design Cost									Amount
Total:									0
Continue Entire WorkSheet Back Cancel									

For items 16, 17, 18a, and 18b:

If you responded “No” to the question “Override existing formulas and key in data manually?” in the “Main” screen, enter percentage information directly in the fields provided. If you know the specific amount of any of these items, click “Edit” and enter the specific dollar amount. Click “Save.”

If you responded “Yes” to the question “Override existing formulas and key in data manually?” in the “Main” screen, you cannot enter a percentage in the fields provided. Enter the value by clicking “Edit” and entering the amount. Click “Save.”

Note: For these items, you must justify fees in excess of the default percentages in the CEW Notes section, after “CEW - Totals” (Items 22-27).


Item 16 A/E Basic Services Fee	Enter the dollar amount or percentage of all basic estimated or contracted A/E services fees, including approved change orders for the project as of the date of the estimate. The typical estimated fee should be 7% of Item 11 for new construction and 7.5% for renovation.
Item 17 A/E Special Services Fee	Enter the dollar amount or percentage of all estimated or contracted fees for special design services. Examples include special consultants for acoustics, kitchen, telecommunications, museum exhibit design services, special surveys, etc. You may enter either the percentage Item 11 or the dollar amount.
Item 18 A Building Equipment, Commissioning	Enter the dollar amount or percentage for commissioning the building. This applies only to buildings with complex mechanical and electrical systems that require specific adjustments, testing, and the training of personnel to operate. The amount should be 1.5% of the cost of the “Structure” (Item 8j).

Cost Estimate Worksheet Design Screen (Continued)

Item 18 B CM Pre-construction Fees	<p>This item only applies to Higher Education agencies and projects for which DGS approved the use of a construction manager.</p> <p>Enter a percentage or the dollar amount for construction management fees that are associated with the design process. The amount should be equal to 1% of Item 11.</p>
Item 18 C Miscellaneous Design Costs	<p>Click "Edit." Enter any miscellaneous costs for design (e.g. boundary and archaeological surveys, borings, etc.) that are not included in the A/E Basic or Special Services. Click "Add" to enter additional items. Click "Save" to save your entries.</p> <p>Click "Continue." CBIS will display Items 19 and 20.</p>

Cost Estimate Worksheet

Equipment and Acquisition Screen



[About CBIS](#)
[Manage Account](#)
[Logout](#)

[Home](#)
[Main](#)
[CEW](#)
[Schedule](#)
[Cost & Funds](#)
[Justification](#)
[Details](#)
[Tax Survey](#)
[Operating Imp.](#)
[Submit](#)

Title: Disaster Recovery Center

CEW Title: Disaster Recovery Center

CEW - Equipment and Acquisition

Item 19

A. Insert the estimated cost of the movable capital equipment requested for this project less the information technology equipment (Agency Estimated)

0

B. Insert the estimated cost of the information technology capital equipment requested for this project (Agency Estimated)

0

Item 20

Acquisitions:

0

[Continue](#)
[Entire Work Sheet](#)
[Back](#)
[Cancel](#)

Item 19 A Movable Capital Equipment	<p>Enter the estimated cost of capital-eligible movable equipment, less the information technology (IT) and audio visual (AV) equipment required. Review the Capital Equipment Guidelines. Do not include in your cost estimate items that are ineligible for capital funding.</p> <p>(Higher Education agencies are eligible to use the Equipment Allowance Calculator. Please see the equipment section of the Capital Budget Guide for instructions.)</p>
Item 19 B Information Technology Capital Equipment	<p>Enter the estimated cost of the IT and AV capital equipment (e.g. voice, video, data, and wireless). Items typically included here are equipment that has a very substantial associated cost, such as an electronic private branch exchange (PBX) that serves a major building or buildings in a facility on a campus, or hub servers that support a complex network of data links. (Refer to Section X: Appendices - Appendix C-1)</p> <p>If the IT work will be handled by a separate vendor contract, then it should also include fiber optic or copper vertical riser distribution cables, cable termination equipment and related wiring in wiring closets or each floor, and wire connecting the wire closet terminations to the wall jacks or other outlets to which telephone stations and computers will be connected that are not installed as part of the general construction contract. Do not include in your cost estimate items ineligible for capital funding.</p>
Item 20 Acquisition	<p>Enter the total cost of any acquisitions, including land and property, if applicable.</p>
Item 21 Not Shown	<p>No data entry required. This field appears only on the CEW report, not the CBIS screen. It shows total project costs calculated by CBIS.</p> <p>Click "Continue." CBIS will display Items 22 - 27.</p>

Cost Estimate Worksheet

Total Screen

C.B.I.S.										About CBIS	Manage Account	Logout
Home	Main	CEW	Schedule	Cost & Funds	Justification	Details	Tax Survey	Operating Imp.	Submit			

Title: Disaster Recovery Center

CEW Title: Disaster Recovery Center

CEW - Total

Item 22

Total Construction Costs and related Costs: 30,419,219

Item 23

Prior Construction Funds:

Item 24

New Construction Funds Required: (Difference between 22 and 23) 30,419,219

Item 25

Total Design Fees and Related Costs: 15,912

Item 26

Prior Design Funds:

Item 27

New Design Funds Required: (Difference between 25 and 26) 15,912

Construction Cost of the structure per square feet at the mid-point of construction of the project: (Item 8 total divided by total GSF in Item 7) 347.56

Construction Cost of the Structure/Site/Utilities per square feet of the project: (Item 11 divided by Total GSF in Item 7) 382.32


Total project Cost per square feet of the project: (Item 22 divided by Total GSF in Item 7) 419.40

[Continue](#) [Entire WorkSheet](#) [Back](#) [Cancel](#)

Item 22 Total Construction and Related Costs	No data entry required. CBIS populates this field automatically based on previously entered information
Item 23 Prior Construction Funds	Enter the total of all prior construction funds authorized for this project, including non-State fund sources.
Item 24 New Construction Funds Required	No data entry required. CBIS populates this field automatically based on previously entered information
Item 25 Total Design Fees and Related Costs	No data entry required. CBIS populates this field automatically based on previously entered information.
Item 26 Prior Design Funds	Enter the total of all prior design funds authorized for this project, including non-State fund sources.
Item 27 New Design Funds Required	No data entry required. CBIS populates this field automatically based on previously entered information. Click "Continue." CBIS will display a page for notes.

Cost Estimate Worksheet

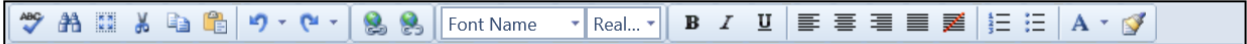
Notes Screen

		About CBIS		Manage Account		Manage Security Questions		Logout	
Home	Main	CEW	Schedule	Cost & Funds	Justification	Details	Tax Survey	Operating Imp.	Submit

Title: Disaster Recovery Center
CEW Title: Disaster Recovery Center

CEW - Notes

Please use the space below to note any special features of the project that may require funding outside usual estimation amounts.



[Continue](#)
[Entire WorkSheet](#)
[Back](#)
[Cancel](#)

Notes	<p>Explain any unusual costs, such as those that are large, atypical, or fall outside of the fixed percentages normally used to calculate building costs. For existing projects, explain significant variations from the prior year's CEW.</p> <p>Click "Continue." CBIS will display the CEW Summary.</p>
--------------	--

Cost Estimate Worksheet

Create CEW Copy

The screenshot shows the C.B.I.S. web application interface. At the top, there is a header bar with the C.B.I.S. logo on the left and navigation links (About CBIS, Manage Account, Logout, Help) on the right. Below the header is a dark yellow toolbar containing buttons for Home, Main, CEW, Schedule, Cost & Funds, Justification, Details, Tax Survey, Operating Imp., and a Submit button. The main content area has a title "Title: Disaster Recovery Center" and four buttons: Create Agency Copy, Create Final Agency CEW, Print, and Link CEW to Schedule & Details. Below these buttons, the text "Please Select a CEW to View" is displayed, followed by a checkbox labeled "Original Requested CEW" which is currently checked.


Create Agency Copy

To create a copy of a previously completed CEW:

1. Click "CEW" in the dark-yellow toolbar.
2. Click on the title of the CEW that you wish to copy.
3. Check the box next to "Original Requested CEW."
4. Click the "Create Agency Copy" button. This will bring you to the "CEW Main" screen of the copied CEW. To make changes to the CEW copy, follow the steps outlined previously to make the desired updates.

Cost Estimate Worksheet

Linking CEW to Schedule and Details Screens

 **C.B.I.S.**

HomeMainCEWScheduleCost & FundsJustificationDetailsTax SurveyOperating Imp.[Submit](#)

About CBISManage AccountLogout

Title: Disaster Recovery Center

Create Agency CopyCreate Final Agency CEWPrintLink CEW to Schedule & Details

Please Select a CEW to View

☐ ☒ Original Requested CEW

You can link the CEW to the “Schedule” and “Details” screens (for standalone projects) or to the “Details and Scheduling” screen (for projects within programs). This will pull schedule and total NSF/GSF details from the CEW and populate the appropriate fields.

Link CEW to Schedule & Details	<ol style="list-style-type: none">1. Select the CEW you wish to link by clicking in the empty box to the left of the CEW.2. Click the yellow “Link CEW to Schedule & Details” button. Navigate to the “Schedule” and “Details” or the “Details and Scheduling” screens to verify that the data has populated.
---	--